

Dear candidate,

Below you will see the requirements of a program. In order to be considered for a technical phone interview with our hiring manager and team we want to assess your ability to problem solve, analyze requirements, and write code.

PP 1.6: In the programming language of your choice, write a method that modifies a string using the following rules:

1. Each word in the input string is replaced with the following: the first letter of the word, the count of distinct letters between the first and last letter, and the last letter of the word. For example, "Automotive parts" would be replaced by "A6e p3s".
2. A "word" is defined as a sequence of alphabetic characters, delimited by any non-alphabetic characters.
3. Any non-alphabetic character in the input string should appear in the output string in its original relative location.

We are looking for accuracy, efficiency and solution completeness. Please include this problem description in the comment at the top of your solution. The problem is designed to take approximately 1-2 hours.

Please upload your solution to Dropbox or similar option (not G-Drive) and send me a link to download the folder.